



Application No: GB 0119772.2  
Claims searched: 1-30

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**Patents Act 1977**  
**Search Report under Section 17**

**Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): E1F FLA

Int CI (Ed.7): E21B (43/10, 43/04, 29/10, 33/10)

Other: Online: WPI EPODOC JAPIO

**Documents considered to be relevant:**

Category	Identity of document and relevant passage	Relevant to claims
A	GB 2346165 A (BAKER HUGHES)	
A	WO 98/00626 A (SHELL) see esp. page 7 lines 9-27	
A	US 3818734 (BATEMAN)	
A	US 1641519 (ANDRE)	

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.  
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A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.  
E Patent document published on or after, but with priority date earlier than, the filing date of this application.